

# Datasheet: MCA43FB BATCH NUMBER 161584

Description:	MOUSE ANTI RAT CD45:FITC		
Specificity:	CD45		
Other names:	LCA		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	OX-1		
Isotype:	lgG1		
Quantity:	0.5 mg		

# **Product Details**

### **Applications**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			1/5 - 1/50

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Rat			
Product Form	Purified IgG conjug	gated to Fluorescein Isoth	niocyanate Isomer 1 (l	FITC) -
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	FITC	490	525	
Buffer Solution	Phosphate buffere	ed saline		
Preservative	0.09% Sodium Azi	ide		
Stabilisers	1% Bovine Serum Albumin			
Approx. Protein Concentrations	IgG concentration	0.5 mg/ml		
Immunogen	Rat thymocyte me	mbrane glycoproteins.		

# External Database Links

**UniProt:** 

P04157 Related reagents

**Entrez Gene:** 

24699 Ptprc Related reagents

#### **RRID**

AB 566766

#### **Fusion Partners**

Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.

#### **Specificity**

**Mouse anti Rat CD45 antibody, clone OX-1** recognizes CD45, also known as the leucocyte common antigen (LCA). The leucocyte common antigen consists of a family of heavily glycosylated membrane glycoproteins of molecular weight 180 – 240kDa.

Antibodies recognising a common epitope on all of these isoforms are termed CD45, whilst those recognising only individual isoforms are termed CD45RA, CD45RO etc. OX-1 reacts with all forms of CD45 expressed by all haematopoietic cells, except erythrocytes.

CD45 isoforms play complex roles in T-cell and B-cell antigen receptor signal transduction.

This product is routinely tested in flow cytometry on rat splenocytes

#### Flow Cytometry

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

#### References

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- 16. Yao, Y. *et al.* (2016) Alendronate Attenuates Spinal Microglial Activation and Neuropathic Pain. <u>J Pain.</u> 17 (8): 889-903.
- 17. Wang, C. *et al.* (2015) Small activating RNA induces myogenic differentiation of rat adipose-derived stem cells by upregulating MyoD. <u>Int Braz J Urol. 41 (4): 764-72.</u>
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- 20. Hellenbrand, D.J. *et al.* (2019) Sustained interleukin-10 delivery reduces inflammation and improves motor function after spinal cord injury. <u>J Neuroinflammation</u>. 16 (1): 93.
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Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA43FB">https://www.bio-rad-antibodies.com/SDS/MCA43FB</a> 10041
Regulatory	For research purposes only

# **Related Products**

## **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA1209F)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

9 8/8 3/51

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M385585:210513'

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